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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

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“Step Out From the Old to the New”

IS 12520 (1988): Recommendations for preferred pressures for pneumatic tools and machines [PGD 8: Pneumatic Tools]



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Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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*Indian Standard*RECOMMENDATIONS FOR
PREFERRED PRESSURES FOR PNEUMATIC TOOLS AND MACHINES

1. Scope — Lays down a series of preferred pressures to be used as reference pressures when presenting performance data for pneumatic tools and pneumatic machines. Components for compressed air systems shall also be designed to meet the standardized pressures.

Note — The stated pressures are effective (gauge) pressures, given in bars.

2. Definitions — For the purpose of this standard, the following definition shall apply.

2.1 Design Pressure (for Pneumatic Tools or Pneumatic Machines) — The pressure at which the tool or machine is normally intended to be used. This is the pressure at which the performance tests for the machine shall be run.

3. Design Pressures for Pneumatic Tools and Pneumatic Machines — The preferred design pressures and their fields of application are given in the table below:

| PREFERRED DESIGN EFFECTIVE (GAUGE) PRESSURES FOR PNEUMATIC TOOLS AND PNEUMATIC MACHINES | |
|---|--|
| Preferred Design Pressure Bars* | Examples of Typical Applications |
| 4 | Rock drills and other equipment in coal-mines. Spray-painting guns for car-service stations and small factories. |
| 6.3 | Rock-drills for general use. Equipment for road-construction and building industries. Engineering tools for machine-shops, metal-producing industries, shipyards, etc. Air motors for various uses. Spray-painting guns for mass production. |
| 10 | Sandblasting equipment for mass production. Rock-drills for 'down the hole' method. |
| 16 | Heavy rock-drills for 'down the hole' method. |
| 25 | For future use. |
| <p>Note — If a manufacturer has to choose a design pressure outside the standard range for a new tool or a new application, the range of rated pressure for compressors may be used for guidance.</p> <p>*1 bar = 1.0 MPa.</p> | |

EXPLANATORY NOTE

The range of design pressures given in this standard is very limited and concentrated on those which are used in the industry.

In preparing this standard, considerable assistance has been derived from ISO 5941-1979 'Compressors, pneumatic tools and machines — Preferred pressures' issued by the International Organization for Standardization (ISO).

Adopted 1 November 1988

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